PTO/SB/05 (01-04)
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UTILITY PATENT APPLICATION TRANSMITTAL

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UTILITY		Attorney Docket No.	PD-03W152	
PATENT APPLICATION		: First Inventor	Oleg M. Efimov	<u> </u>
TRANSMITTAL		Title	Nonreciprocal Optical	o.
(Only for new nonprovisional applications under 37 CFR 1.53(b))		Express Mail Label No.	ER 159019234 US	
				

(Only for flew i	nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No. Livi 1000					
	APPLICATION ELEMENTS ter 600 concerning utility patent application contents.	ADDRESS TO: Commission P.O. Box 1	Patent Application 99 Oner for Patents 80 450 0 VA 22313-1450 0				
2. Applicant of Applicant of Superification (preferred and Description) 3. Specification (preferred and Description) - Cross Reference or a compound Brief Description (Brief Summunder Claim(s)) - Abstract of Drawing(s) 5. Oath or Declaration and Newly of Superification (For continuous) b. Copy from (for continuous) i. Dettication (Signal and Declaration) Application (Signal and Declaration)	ion [Total Pages 16] Irrangement set forth below) re title of the invention ference to Related Applications t Regarding Fed sponsored R & D a to sequence listing, a table, butter program listing appendix and of the Invention cription of the Drawings (if filed) Description of the Disclosure a) (35 U.S.C. 113) [Total Sheets 3]	ii. Paper c. Statements verifying ACCOMPANYING AP 9. Assignment Papers (cov 37 CFR 3.73(b) Statement (when there is an assign 11. English Translation Document (IDS)/PTO-14 13. Preliminary Amendment 14. Return Receipt Postcard (Should be specifically if (Should be specifically if (Information Discourted Statement) (Should be specifically if (Should be specifically if (Information Discourted Statement) (Should be specifically if (Should be specifically if (Information Discourted Should be specifically if (Information Discourted Should be specifically if (Information Chapter) (Information Discourted Should be specifically if (Information	redix) Sequence Submission Form (CRF) Ince Listing on: D-R (2 copies); or Indentity of above copies PLICATION PARTS The sheet & document(s)) Interpretation of the sheet of t				
specification followi	ring the title, or in an Application Data Sheet under S	37 CFR 1.76:	s in the mot deriver en the				
Continuation			n No.:				
Prior application information: Examiner For CONTINUATION OR DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
19. CORRESPONDENCE ADDRESS							
Customer t	Number:	OR Corre	spondence address below				
Name Pat	tent Docket Administration						
<i>^ dd</i>	D. Box 902, Bldg. E04/MS N119						
200	2000 E. El Segundo Boulevard State CA Zip Code 199345 0993						
	Segundo	State CA	, 90243-0902				
Country Uni	ited States of America	Telephone 310-647-3723	310-047-2010				
Name (Print/Type) John E. Gupther Registration No. (Attorney/Agent) 43,649							
Signature	the houte		Date 03/22/2004				

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(\$) 220.00

SUBTOTAL (3)

PTO/SB/17 (10-03)
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		Complete if Known				
呂、FEE TRANSMITTA	┖▕	Appli	cation I	Numbe	er	
for FY 2004		Filing Date				
_ _ _			Inven	otor Oleg M. Efimov		
Effective 10/01/2003. Patent fees are subject to annual revision.	Examiner Name			ame		
Applicant claims small entity status. See 37 CFR 1.27		Art Unit				
TOTAL AMOUNT OF PAYMENT (\$) 1332.00		Attorney Docket No.			o. PD-03W152	
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES Large Entity Small Entity					
Deposit Account:	Fee	Fee e (\$)	Fee	Fee (\$)	Fee Description	
Account Number	1051	130	2051	65	Surcharge - late filing fee or oath	
Deposit Account RAYTHEON COMPANY	1052	2 50	2052		Surcharge - late provisional filing fee or cover sheet	
Name The Director is authorized to: (check all that apply)	1053		1053		Non-English specification	
Charge fee(s) indicated below Credit any overpayments		2 2,520	1812	-,	For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920	1804		Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	5 1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month	
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month	
4004 770 0004 205 Halling Stine for	1255	5 2,010	2255	1,005	Extension for reply within fifth month	
1001 770 2001 385 Outlity filling fee 770.00	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	3 290	2403	145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1 1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 770.00	1452	2 110	2452	55	Petition to revive - unavoidable	
	1453	3 1,330	2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1 1,330	2501		Utility issue fee (or reissue)	
Ext <u>ra Claims below Fee Paid</u>	1502	2 480	2502	240	Design issue fee	

Total Cla		39	-20**	= <u>19 </u>	= 342	1503	640	2503	320	Plant issue fee	
Indepen- Claims		/03	- 3**	=	=	1460	130	1460	130	Petitions to the Commissioner	
Multiple	Depen	dent			=	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large E		Small Er				1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
Fee F Code (\$)	Code (Fee Description	-	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1202	18	2202	9	Claims in excess		1809	770	2809		Filing a submission after final rejection	
1201	86	2201	43	Independent clair	ns in excess of 3					(37 ČFR 1.129(a))	
1203 2	290	2203	145	Multiple depende	nt claim, if not paid	1810	770	2810		For each additional invention to be	
1204	86	2204	43	** Reissue indepe	endent claims					examined (37 CFR 1.129(b))	
1201	۱ "			over original pa		1801	770	2801	385	Request for Continued Examination (RCE)	
1205	18	2205	9	** Reissue claims and over origin	s in excess of 20 al patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 342.00			Other fee (specify)								
SUBTOTAL (2) (\$) 342.00				tDeduced by Penis Filing Foe Brid							

(Complete (if applicable)) Registration No. 43,649 Telephone 310-647-3723 John E. Gunther Name (Print/Type) (Attorney/Agent) 03/22/2004 Signature

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**or number previously paid, if greater; For Reissues, see above